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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO. 10/813 866
NATIONAL AMERICAN PAGGI COMPA	200701/1230	Continuation of 10/427,145
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT	
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(PTO-1449)	Herewith	To Be Assigned 288/

U.S. PATENT DOCUMENTS

	EXAMI INITL	AL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
	/NV	V	1	4,489,259	12/18/1984	White et al.			
			2	4,480,259	10/30/1984	Kruger et al.			
Ŀ			3	4,490,728	12/25/1984	Vaught et al.			
			4	4,590,482	05/20/1986	Hay et al.			
			5	5,501,883	03/26/1996	Ishikawa et al.			
	l		6	5,563,639	10/08/1996	Cameron et al.			
	/NV	V/	7	5,423,964	06/13/1995	Smith et al.	,		

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE
/NW/	8	EP 259,796 B1		Europe			
/NW/	9	EP 565,027 B1	-	Europe			
/NW/	10	EP 588,952 B1		Europe			

/NW/	11	Knox, "Theoretical Aspects of LC with Packer	Knox, "Theoretical Aspects of LC with Packed and Open Small-Bore Columns," Journal of Chromatographic Science 18:453-			
1		461 (1980)				
	12	Alexander et al., "Development of a Nano-electrospray Mass Spectrometry Source for Nanoscale Liquid Chromatography and				
		Sheathless Capillary Electrophoresis, " Rapid (s Capillary Electrophoresis," Rapid Communications in Mass Spectrometry 12:1187-1191 (1998)			
	13	Dole et al., "Molecular Beams of Macroions,"	The Journal of Chemical Physics 49:2240-2249 (1968)			
	14	Yamashita et al., "Electrospray Ion Source. A	Another Variation on the Free-Jet Theme," The Journal of Physical Chemistry			
	, , , , , , , , , , , , , , , , , , ,	88(20):4451-4459 (1984)	:			
/NW/	15	David P.H. Smith, "The Electrohydrodynamic	Atomization of Liquids," IEEE Transactions on Industry Applications			
		IA-22(3):527-535 (1986)				
EXAMINER	/Nikita	wells/ (05/01/2007)	DATE CONSIDERED 5/01/2007			
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 200701/1230	SERIAL NO. 10 /813, 866 Continuation of 10/427,145
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT	Continuation of 10/42/,143
	Schultz et al.	
(use several sheets if necessary)	FILING DATE	GROUP ART UNIT 288/
(PTO-1449)	Herewith	To Be Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
/NW/	16	5,523,566	06/04/1996	Fuerstenau et al.			
	17	5,608,217	03/04/1997	Franzen et al.			
	18	4,842,701	06/27/1989	Smith et al.			
	19	5,162,650	11/10/1992	Bier et al.			
	20	5,182,366	01/26/1993	Heubner et al.			
·	21	5,481,110	01/02/1996	Krishnaswamy et al.			
/NW/	22	5,501,893	03/26/1996	Laermer et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE
/NW/	23	EP 677,332 A2		Europe			
/NW/	24	EP 692,713 A1		Europe			
/NW/	25	EP 860,858 A1		Europe			

		Science 261:805-807 (1003)				
		Science 261:895-897 (1993) Jacobson et al., "Open Channel Electrochromatography on a Microchip," Anal. Chem. 66:2369-2373 (1994)				
	27					
	28	Kutter et al., "Integrated Microchip Device with Electrokinetically Controlled Solvent Mixing for Isocratic and Gradient				
		Elution in Micellar Electrokinetic Chromatography," Anal.	Chem. 69:5165-5171 (1997)			
	29	He et al., "Fabrication of Nanocolumns for Liquid Chromat	al., "Fabrication of Nanocolumns for Liquid Chromatography," Anal. Chem. 70:3790-3797 (1998)			
<u> </u>						
/NW/	30	Wilm et al., "Electrospray and Taylor-Cone Theory, Dole's	Beam of Macromolecules at Last?" International Journal of Mass			
		Spectrometry and Ion Processes 136:167-180 (1994)				
EXAMINER	/Nikit	a Wells/ (05/01/2007)	date considered 05/01/2007			

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.			
	200701/1230	Continuation of 10/427,145			
SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT				
STATEMENT BY APPLICANT	Schultz et al.				
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
/NW/	31	5,536,939	07/16/1996	Freidhoff et al.			
1	32	5,541,408	07/30/1996	Sittler			
	33	5,640,010	06/17/1997	Twerenbold			
	34	5,641,400	06/24/1997	Kaltenbach et al.			
	35	5,644,131	07/01/1997	Hansen			
	36	5,705,813	01/06/1998	Apffel et al.			
/NW/	37	5,716,825	02/10/1998	Hancock et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE
/NW/	38	EP 964,428 A2		Europe			
/NW/	39	EP 966,022 A2		Europe			
/NW/	40	GB 2,287,356 A		United Kingdom			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

/NW/	41	Gale et al., "Small Volume and Low Flow-ran	te Electrospray Ionization Mass Spectrometry of Aqueous Samples," Rapid		
		Communications in Mass Spectrometry 7:101	7-1021 (1993)		
	42	Ramsey et al., "Generating Electrospray from	Microchip Devices Using Electroosmotic Pumping," Anal. Chem. 69:1174-		
		1178 (1997)			
	43	Xue et al., "Multichannel Microchip Electros	Xue et al., "Multichannel Microchip Electrospray Mass Spectrometry," Anal, Chem, 69:426-430 (1997)		
	44		for Mass Spectroscopy," 1997 Int. Conference on Solid State Sensors and		
() () 41/		Actuators, Chicago, pp. 927-930 (June 16-19,			
/NW/	45	Jacobson et al., "High-Speed Separations on a	Microchip," Anal, Chem. 66:1114-1118 (1994)		
EXAMINER		/Nikita Wells/ (05/01/2007)	DATE CONSIDERED		

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.		
	200701/1230	Continuation of 10/427,145		
SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT			
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
/NW/	46	5,747,815	05/05/1998	Young et al.			
I	47	5,779,868	07/14/1998	Parce et al.			
	48	5,872,010	02/16/1999	Karger et al.			
	49	5,917,184	06/24/1999	Carson et al.			
	50	5,969,353	10/19/1999	Hsieh			
	51	5,972,187	10/26/1999	Parce et al.			
/NW/	52	5,993,633	11/30/1999	Smith et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE
/NW/	53	WO 97/04297		PCT			
/NW/	54	EP 0 637 998 B1	07/31/1996	Europe		,	
/NW/	55	EP 0 639 223 B1	07/03/1996	Europe			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

/NW/	56	Wang et al., "Polymer-Based Electrospray Chips for Mas	s Spectrometry," Twelfth IEEE International Conference on Micro				
1		Electro Mechanical Systems, Orlando, Florida, pp. 523-5	28 (1999)				
	57	Laermer et al., "Bosch Deep Silicon Etching: Improving	Uniformity and Etch Rate for Advanced Mems Applications,"				
	ŀ	welfth IEEE International Conference on Micro Electro Mechanical Systems, Orlando, Florida, pp. 211-216 (1999)					
	58 Wilm et al., "Analytical Propertie		ay Ion Source," <u>Anal. Chem.</u> , 68:1-8 (1996)				
	59	Electrospray Ionization Mass Spectrometry: Fundamenta	ls, Instrumentation, and Applications, ed. R.B. Cole,				
		ISBN 0-471-14564-5, New York, New York:John Wiley	& Sons, Inc., pp. 3-63 (1997)				
/NW/	60	Figeys et al., "A Microfabricated Device for Rapid Prote	in Identification by Microelectrospray Ion Trap Mass				
		Spectrometry," Anal. Chem., 69:3153-3160 (1997)					
XAMINER	/Nik	ita Wells/ (05/01/2007)	DATE CONSIDERED 05/01/2007				

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.
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SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT	
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
/NW/	61	5,994,696	11/30/1999	Tai et al.			
	62	6,068,749	5/30/2000	Karger et al.			
	63	6,110,343	8/29/2000	Ramsey et al.			
	64	5,750,988	05/12/1998	Apffel et al.			
	65	6,032,876	03/07/2000	Bertsch et al.			
	66	6,066,848	05/23/2000	Kassel et al.			
/NW/	67	4,056,324	11/01/1977	Göhde			,

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE
/NW/	68	EP 0 677 322 A2	10/18/1995	Europe			
/NW/	69	DE 43 18 407 A1	06/03/1993	Germany			abstract
/NW/	70	WO 93/22053	11/11/1993	PCT			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

/NW/	71	Vanhoutte et al., "Development of a Nanoscale Liquid Chromatography/Electrospray Mass Spectrometry Methodo			
1		Detection and Identification of DNA Adduct	s," Anal. Chem., 69:3161-3168 (1997)		
	72	Beavis et al., "Off-Line Coupling of a Micro	obore High-Performance Liquid Chromatograph to a Secondary Ion Time-of-Flight		
		Mass Spectrometer," Anal. Chem., 62:1259	1264 (1990)		
	73	Burggraf et al., "Synchronized Cyclic Capil	ary Electrophore sis - A Novel Approach to Ion Separations in Solution,*		
		J. High Resol. Chromatogr., 16:594-596 (19	93)		
	74	Cheng et al., "Chip PCR. II. Investigation	of Different PCR Amplification Systems in Microfabricated Silicon-Glass Chips,"		
1		Nucleic Acids Res., 24(2):380-385 (1996)			
/NW/	75	Chu et al., "Affinity Capillary Electrophore	sis - Mass Spectrometry for Screening Combinatorial Libraries,"		
		J. Am. Chem. Soc., pp. 7827-7835 (1996)			
KAMINER	/Nil	kita Wells/ (05/01/2007)	DATE CONSIDERED 05/01/2007		

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.
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STATEMENT BY APPLICANT	Schultz et al.	
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
/NW/	76	4,356,722	11/02/1982	Bunce et al.			
	77	4,366,118	12/28/1982	Bunce et al.			
	78	4,369,664	01/25/1983	Bunce et al.			
	79	4,459,267	07/10/1984	Bunce et al.			
	80	4,593,728	06/10/1986	Whitehead et al.			
, T	81	4,708,782	11/24/1987	Andresen et al.			
/NW/	82	4,879,097	11/07/1989	Whitehead et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE
/NW/	83	WO 93/22055	11/11/1993	PCT			
/NW/	84	GB 2,260,282	04/14/1993	GB			
/NW/	85	WO 92/03720 .	03/05/1992	PCT			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

/NW/	86	Cowen et al., "An On-Chip Miniature Liquid Chromatography System: Design, Construction and Characterization,"						
//\\\/		Micro Total Analysis Systems, pp. 295-298 (1995)						
	87	Davis et al., "A Microscale Electrospray Interface for On-	avis et al., "A Microscale Electrospray Interface for On-Line, Capillary Liquid Chromatography/Tandem Mass Spectrometr					
11		of Complex Peptide Mixtures," Anal. Chem., 67:4549-4556 (1995)						
	88	Deml et al., "Electric Sample Splitter for Capillary Zone Electrophoresis," J. Chromatogr., 320:159-165 (1985)						
	89	89 Doherty et al., "Rapid On-Line Analysis Using a Micromachined Gas Chromatograph Coupled to a Bench-To						
		Mass Spectrometer," LC-GC, 12(11):846-850 (1994)						
/NW/	90	Effenhauser et al., "High-Speed Separation of Antisense O	se Oligonucleotides on a Micromachined Capillary Electrophoresis					
		Device," Anal, Chem., 66:2949-2953 (1994)						
XAMINER	/\	likita Wells/ (05/01/2007)	DATE CONSIDERED 05/01/2007					

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 200701/1230	SERIAL NO. Continuation of 10/427,145
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT Schultz et al.	
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EXAM INIT			DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
/N\	W/	91	4,891,120	01/02/1990	Sethi et al.			
		92	4,908,112	03/13/1990	Pace			
		93	4,983,038	01/08/1991	Ohki et al.			
		94	4,999,493	03/12/1991	Allen et al.			
		95	5,015,845	05/14/1991	Allen et al.			
		96	5,110,745	05/05/1992	Kricka et al.			•
/N	Ŵ/	97	5,126,022	06/30/1992	Soane et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE
/NW/	98	WO 96/04547	02/15/1996	PCT			
/NW/	99	WO 96/14933	05/1996	PCT ·			
/NW/	100	WO 96/14934	05/1996	PCT			

/NW/	101	Effenhauser et al., *Glass Chips for High-Speed Capillary	Electrophoresis Separations with Submicrometer Plate Heights,"			
1		Anal. Chem., 65:2637-2642 (1993)				
	102	Effenhauser et al., "Manipulation of Sample Fractions on a	thauser et al., "Manipulation of Sample Fractions on a Capillary Electrophoresis Chip," Anal. Chem., 67(13):2284-2287			
		(1995)				
	103	Elwenspoek et al., "Silicon Microstructures for Fluid Hand	ling," Analysis Magazine, pp. 1-4 (1994)			
	104	Emmett et al., "Micro-Electrospray Mass Spectrometry: L	ltra-High-Sensitivity Analysis of Peptides and Proteins,"			
		J. Am. Soc. Mass Spectrom., 5:605-613 (1994)	•			
	105	Fan et al., "Micromachining of Capillary Electrophoresis I	njectors and Separators on Glass Chips and Evaluation of Flow at			
/NW/		Capillary Intersections, Anal. Chem., 66:177-184 (1994)	·			
		kita Wells/ (05/01/2007)	DATE CONSIDERED 05/01/2007			

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 200701/1230	SERIAL NO. Continuation of 10/427,145
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT Schultz et al.	
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
/NW/	106	5,132,012	07/21/1992	Miura et al.			
	107	5,180,480	01/19/1993	Manz			
	108	5,245,185	09/14/1993	Busch et al.			
	109	5,269,900	12/14/1993	Jorgenson et al.			
	110	5,283,036	02/01/1994	Hofmann et al.			
	111	5,296,114	03/22/1994	Manz			
/NW/	112	5,296,375	03/22/1994	Kricka et al.			

FOREIGN PATENT DOCUMENTS

	-	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE
/NW/	113	WO 96/15269	05/1996	PCT			·
/NW/	114	WO 01/50499 A1	07/12/2001	PCT			
/NW/	115	WO 01/53819 A1	07/26/2001	PCT			

/NW/	116	Fang et al., *On-Line Time-of-Flight Mass Spectrometr	c Analysis of Peptides Separated by Capillary Electrophoresis,"			
///////		<u>Anal, Chem.</u> , 66:3696-3701 (1994)				
	117	Figueroa et al., "High-Performance Immobilized-Metal	Affinity Chromatography of Proteins on Iminodiacetic Acid			
		Silica-Based Bonded Phases," J. Chromatogr. 371:335-352 (1986)				
	118	Harrison et al., "Rapid Separation of Fluorescein Deriva	tives Using a Micromachined Capillary Electrophoresis System,"			
	ļ	Analytica Chimica Acta , 283:361-366 (1993)				
	119	Harrison et al., "Capillary Electrophoresis and Sample I	njection Systems Integrated on a Planar Glass Chip," Anal. Chem.			
		64(17):1926-1932 (1992)				
/NW/	120	Harrison et al., "Towards Miniaturized Electrophoresis	and Chemical Analysis Systems on Silicon: An Alternative to			
		Chemical Sensors, Sensors and Actuators B, 10:107-11	6 (1993)			
EXAMINER	/N	ikita Wells/ (05/01/2007)	DATE CONSIDERED 05/01/2007			

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.			
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SUPPLEMENTAL INFORMATION DISCLOSURE	APPLICANT				
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NÄME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
/NW/	121	5,302,533	04/12/1994	Kricka			
1	122	5,304,487	04/19/1994	Wilding et al.			
	123	5,306,621	04/26/1994	Kricka			
	124	5,328,578	07/12/1994	Gordon	`		
	125	5,331,159	07/19/1994	Apffel, Jr. et al.			,
	126	5,332,481	07/26/1994	Guttman			
/NW/	127	5,338,427	08/16/1994	Shartle et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE
/NW/	128	WO 00/15321	03/23/2000	PCT		_	
	,			, , , , , , , , , , , , , , , , , , , ,			

/NW/	129	Jacobson et al., "Microchip Electrophoresis With	Sample Stacking," Electrophoresis, 16:481-486 (1995)
	130	Jacobson et al., "Fused Quartz Substrates for Mice	ochip Electrophoresis," <u>Anal. Chem.</u> , 67:2059-2063 (1996)
	131	Jacobson et al., "Microchip Capillary Electrophore (1994)	sis with an Integrated Postcolumn Reactor," Anal, Chem., 66:3472-3476
	132		Column Geometry on the Performance of Microchip Electrophoresis
		Devices," Anal. Chem., 66:1107-1113 (1994)	
/NW/	133	Jacobson et al., "Integrated Microdevice for DNA	Restriction Fragment Analysis,* Anal. Chem., 68(5):720-723 (1996)
XAMINER	<u>`1</u>	/Nikita Wells/ (05/01/2007)	DATE CONSIDERED 05/01/2007

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.
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SUPPLEMENTAL INFORMATION / DISCLOSURE STATEMENT BY APPLICANT	APPLICANT	
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U.S. PATENT DOCUMENTS

EXAMINE INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
/NW/	134	5,374,834	12/20/1994	Geis et al.			
I	135	5,376,252	12/27/1994	Ekström et al.			
	136	5,387,329	02/07/1995	Foos et al.			
	137	5,401,376	03/28/1995	Foos et al.			
	138	5,401,963	03/28/1995	Sittler			
	139	5,415,841	05/16/1995	Dovichi et al.			
/NW/	140	5,421,980	06/06/1995	Guttman			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE
		,	1			

/NW/	141	Jacobson et al., "Precolumn Reactions with Electrophoretic Analysis Integrated on a Microchip," Anal. Chem., 66:4					
		(1994)					
	142	Jansson et al., "Micro Vials on a Silicon Wafer	for Sample Introduction in Capillary Electrophoresis,* J. Chromatogr.				
		626:310-314 (1992)					
	143	Ko et al., "Semiconductor Integrated Circuit To	chnology and Micromachining," pp. 109-168 - undated				
		,	· ·				
	144	Körner et al., "Nano Electrospray Combined w	ith a Quadrupole Ion Trap for the Analysis of Peptides and Protein Digests,"				
		J. Am. Soc. Mass. Spectrom., 7:150-156 (1990))				
/NW/	145	Koutny et al., "Microchip Electrophoretic Imm	unoassay for Serum Cortisol," Anal, Chem., 68:18-22 (1996)				
EXAMINER	/Ni	kita Wells/ (05/01/2007)	DATE CONSIDERED 05/01/2007				

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT	
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
/NW/	146	5,427,946	06/27/1995	Kricka et al.			
	147	5,429,734	07/04/1995	Gajar et al.		•	
	148	5,486,335	01/23/1996	Wilding et al.			
	149	5,498,392	03/12/1996	Wilding et al.			
	150	5,512,131	04/30/1996	Kumar et al.			
	151	5,512,451	04/30/1996	Kricka			
/NW/	152	5,572,023	11/05/1996	Caprioli			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS ·	SUBCLASS	TRANS- LATION IF APPRO- PRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

153	Kriger et al., "Durable Gold-Coated Fused Silica Capillaries for Use in Electrospray Mass Spectrometry," Anal. Chem						
	67:385-389 (1995)						
154	Manz et al., "Micromachining of Monocrystalline Silicon and Glass for Chemical Analysis Systems," Trends in Anal. Chem.						
	10(5):144-149 (1991)						
155	Manz et al., "Planar Chips Technology for Miniaturization and Integration of Separation Techniques Into Monitoring						
	Systems," J. Chromatogr., 593:253-258 (1992)						
156	Manz et al., "Planar Chips Technology for Miniaturization of Separation Systems: A Developing Perspective in Chemical						
	Monitoring," Advances in Chromatography, pp. 1-66 (1993)						
157	Manz et al., "Design of an Open-Tubular Column Liquid Chromatograph Using Silicon Chip Technology," Sensors and						
	Actuators, B1:249-255 (1990)						
/N	Vikita Wells/ (05/01/2007) DATE CONSIDERED 05/01/2007						
	154 155 156 157						

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.
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/NW/	158	5,652,427	07/29/1997	Whitehouse et al.			
	159	5,877,495	03/02/1999	Takada et al.			
	160	6,005,245	12/21/1999	Sakairi et al.			
	161	6,060,705	05/09/2000	Whitehouse et al.		·	
	162	6,114,693	09/05/2000	Hirabayashi et al.	·		
	163	3,538,744	11//10/1970	Karasek et al.			
/NW/	164	3,738,759	06/12/1973	Dittrich et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

/NW/	165	Manz et al., "Miniaturization of Separation Te	chniques Using Planar Chip Technology," J. High Resol. Chromatogr.,				
		16:433-436 (1993)					
	166	Manz et al., "Planar Chip Technology for Cap	llary Electrophoresis," Fresenius J. Anal, Chem., 348:567-571 (1994)				
	167	167 Moore et al., "Microchip Separations of Neutral Species Via Micellar Electrokinetic Capillary Chromatograp					
		Anal. Chem., 67:4184-4189 (1995)					
	168	Nichols et al., "CE-MS for Industrial Applicati	ons Using a Liquid Junction With Ion-Spray and CF-FAB Mass				
		Spectrometry," <u>LC-GC</u> , 10(9):676-686 (1992)					
/NW/	169	Ocvirk et al., "High Performance Liquid Chro	natography Partially Integrated Onto a Silicon Chip, Anal. Meth.				
/144/		<u>Instrumen.</u> , 2(2):74-82 (1995)					
EXAMINER	•	/Nikita Wells/ (05/01/2007)	DATE CONSIDERED 05/01/2007				

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.		
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/NW/	170	3,915,652	10/28/1975	Natelson			
	171	3,150,442	09/29/1964	Straw et al.			
	172	3,921,916	11/25/1975	Bassous			
,	173	4,007,464	02/08/1977	Bassous et al.			
	174	4,209,696	06/24/1980	Fite			
	175	4,437,103	03/13/1984	Ikeda			
/NW/	176	4,733,823	03/29/1988	Waggener et al.			

FOREIGN PATENT DOCUMENTS

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

/ww/	177	Olivares et al., "On-Line Mass Spectrometric Detection	for Capillary Zone Electrophoresis," Anal. Chem., 59:1230-1232
1		(1987)	
	178	Overton et al., "Development of a Temperature Program	nmed Microchip, High Resolution Gas Chromatograph/Mass
		Spectrometer for Volatile Organic Compound Analysis,	pp. 395-398
	179	Petersen, "Biomedical Applications of MEMS," IEEE,	ор. 239-242 (1996)
	180	Raymond et al., "Continuous Sample Pretreatment Using	g a Free-Flow Electrophoresis Device Integrated Onto a Silicon
	1	Chip," Anal, Chem., 66:2858-2865 (1994)	
	181		n International Symposium on High Performance Capillary
/NW/	181		n International Symposium on High Performance Capillary

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 200701/1230	SERIAL NO. Continuation of 10/427,145		
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/NW/	182	5,349,186	09/20/1994	Iknonmou et al.			
	183	5,505,832	04/09/1996	Laukien et al.			
	184	6,171,875 B1	01/09/2001	Silverbrook		•	
	185	6,245,227	06/12/2001	Moon et al.			
	186	6,432,311 B2	08/13/2002	Moon et al.			
	187	6,461,516 B2	10/08/2002	Moon et al.			
/NW/	188	6,464,866 B2	10/15/2002	Moon et al.			

FOREIGN PATENT DOCUMENTS

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

/NW/	189	Seiler et al., "Electroosmotic Pumping and Va	lveless Control of Fluid Flow Within a Manifold of Capillaries on a Glass				
		Chip," Anal. Chem., 66(20):3485-3491 (1994)				
	190	Seiler et al., "Planar Glass Chips for Capillary	Electrophoresis: Repetitive Sample Injection, Quantitation, and Separation				
		Efficiency," Anal. Chem., 65:1481-1488 (199					
	191	Shoffner et al., *Chip PCR. I. Surface Passi	vation of Microfabricated Silicon-Glass Chips for PCR," Nucleic Acids Res.				
		24(2):375-379 (1996)					
	192	Sjölander et al., "Integrated Fluid Handling S	ystem for Biomolecular Interaction Analysis," Anal. Chem., 63(20):2338-2345				
1	- 1	(1991)					
/NW/	193	Smith et al., "Improved Electrospray Ionization	on Interface for Capillary Zone Electrophoresis-Mass Spectrometry,"				
	;	Anal, Chem., 60:1948-1952 (1988)					
EXAMINER	/N	likita Wells/ (05/01/2007)	DATE CONSIDERED 05/01/2007				

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.
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·/NW/	194	US 2001/0001455	05/24/2001	Moon et al.			
	195	US 2001/0001460	05/24/2001	Moon et al.			
	196	US 2002/0123153	09/05/2002	Moon et al.			
	197	US 2002/0158027	10/31/2002	Moon et al.			
	198	3,669,881	06/13/1972	Cremer et al.			
	199	4,092,166	05/30/1978	Olsen et al.			
/NW/	200	4,403,234	09/06/1983	Miura et al.			

FOREIGN PATENT DOCUMENTS

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

/NW/	201	Valaskovic et al., "Attomole-Sensitivity E	lectrospray Source	for Large-Molecule Mass Spec	ctrometry,* Anal. Chem.,			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		67:3802-3805 (1995)						
	202	Wahl et al., "Sheathless Capillary Electrop	ectrophoresis-Electrospray Ionization Mass-Spectrometry Using 10 µm I.D. Capillaries:					
		Analyses of Tryptic Digests of Cytochrome c," J. Chromatogr. A, 659:217-222 (1994)						
	203	Whitehouse et al., "Electrospray Interface for Liquid Chromatographs and Mass Spectrometers," Anal. Chem., 57:6						
	. .	(1985)	(1985)					
	204	Woolley et al., "Ultra-High-Speed DNA S	equencing Using (Capillary Electrophoresis Chips	," Anal, Chem., 67:3676-3680			
		(1995)						
	205	Woolley et al., "Ultra-High-Speed DNA F	ragment Separatio	ons Using Microfabricated Capi	llary Array Electrophoresis Chips,			
/NW/		Proc. Natl. Acad. Sci. USA, 91:11348-11	352 (1994)					
CAMINER	/Ni	kita Wells/ (05/01/2007)		DATE CONSIDERED	05/01/2007			

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.
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/	/NW/		4,683,042	07/28/1987	Scott			
	•	207	4,728,392	03/01/1988	Miura et al.		·	
		208	5,294,426	03/15/1994	Sekine et al.			
		209	5,316,680	05/31/1994	Frechet et al.			
		210	5,334,310	08/02/1994	Frechet et al.			
		211	5,431,807	07/11/1995	Frechet et al.			
· /I	NW/	212	5,445,324	08/29/1995	Berry et al.			

FOREIGN PATENT DOCUMENTS

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

213	Yoshida et al., "Direct Measurement of Mass Fragmentograms for Eluents From a Micro-Liquid Chromatograph Using an									
	Improved Nebulizing Interface, J. HRC&CC, 3	, 3:16-20 (1980)								
214	ith et al., "New Developments in Microscale Separations and Mass Spectrometry for Biomonitoring: Capillary									
	Electrophoresis and Electrospray Ionization Mass	ectrophoresis and Electrospray Ionization Mass Spectrometry, J. Toxicol, and Environ. Health, 40:147-158 (1993)								
215	Andren et al., "Micro-Electrospray: Zeptomole/	ndren et al., "Micro-Electrospray: Zeptomole/Attomole per Microliter Sensitivity for Peptides," <u>I. Am. Soc. Mass</u>								
	Spectrom., 5:867-869 (1994)									
216	Angell et al., "Silicon Micromechanical Devices	" Scientific American, 248(4):44-55 (19	83)							
217	Beavis et al., "Automated Dry Fraction Collection for Microbore High-Performance Liquid Chromatography-Mass									
	Spectrometry," J. Chromatography, 359:489-497	(1986)								
/Nikita Wells/ (05/01/2007)		DATE CONSIDERED	05/01/2007							
	214 215 216 217	Improved Nebulizing Interface," J. HRC&CC, 3 214 Smith et al., "New Developments in Microscale Electrophoresis and Electrospray Ionization Mass 215 Andren et al., "Micro-Electrospray: Zeptomole/ Spectrom., 5:867-869 (1994) 216 Angell et al., "Silicon Micromechanical Devices, 217 Beavis et al., "Automated Dry Fraction Collection Spectrometry," J. Chromatography, 359:489-497	Improved Nebulizing Interface," <u>J. HRC&CC</u> , 3:16-20 (1980) 214 Smith et al., "New Developments in Microscale Separations and Mass Spectrometry for I Electrophoresis and Electrospray Ionization Mass Spectrometry," <u>J. Toxicol</u> , and Environ 215 Andren et al., "Micro-Electrospray: Zeptomole/Attomole per Microliter Sensitivity for ESpectrom., 5:867-869 (1994) 216 Angell et al., "Silicon Micromechanical Devices," <u>Scientific American</u> , 248(4):44-55 (19 217 Beavis et al., "Automated Dry Fraction Collection for Microbore High-Performance Liquid Spectrometry," <u>J. Chromatography</u> , 359:489-497 (1986)							

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.					
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/NW/			09/26/1995	Frechet et al.			
1	219	5,493,115	02/20/1996	Deinzer et al.			
	220	5,495,108	02/27/1996	Apffel, Jr. et al.			
	221	5,647,979	07/15/1997	Liao et al.			
	222	5,789,746	08/04/1998	Kato et al.			
	223	5,800,692	09/01/1998	Naylor et al.			
/NW/	224	5,804,022	09/08/1998	Kaltenbach et al.			

FOREIGN PATENT DOCUMENTS

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/NW/	227	5,856,082	01/05/199	29	Aebersold et a	al.					
	228	5,876,957	03/02/199		Douglas et al.				,		
	229	5,917,185	06/29/199) 9	Yeung et al.						
	230	5.969,351	10/19/199) 9	Nabeshima et	al.					
	231	6,007,775	12/28/199) 9	Yager	,					
	232	6,394,942B2	42B2 05/28/2002		Moon et al.						
' /NW/	233	6,417,510 B2	07/09/200	22	Moon et al.						
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/NW	٧/	234	6,454,938 B2		09/24/	2002	Moon et al.						
1		235	US 2001/0037	979	11/08/	2001	Moon et al.						
		236	US 2002/0172	618	11/21/	2002	Moon et al.						
		237	US 2002/0172	619	11/21/	2002	Moon et al.						
		238	6,462,337		10/08/	2002	Li et al.						
		239	6,596,988		07/22/	2003	Corso et al.						
		240	6,627,882	09/30/200		2003	Corso et al.						
/NV	V/	241	6,633,031		10/14/	2003	Schultz et al.						
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